



20.3×16.8×20.2 JZC-22F  
22.5×16.8×20.2 JZC-22F<sub>2</sub>  
20.0×16.0×20.3 JZC-22F<sub>3</sub>

## JZC-22F JZC-22F<sub>2</sub> JZC-22F<sub>3</sub>



CH0050402—2000

UL E158859



40001299

R9452085

### Features

- Small size, light weight .Low coil power consumption.
- Switching capacity can reach 20A.
- PC board mounting.
- Suitable for household electrical appliance, automation system, electronic equipment, instrument and meter application.
- TV-5、TV-8 Remote control TV receivers, monitor display, audio equipment high and rushing current application.

### Ordering Information

**JZC-22F S C 5 D DC12V**

1 Part number: JZC-22F JZC-22F<sub>2</sub> JZC-22F<sub>3</sub>

2 Enclosure: S: Sealed type; F: Dust cover

3 Contact arrangement: A:1A; B:1B; C:1C

4 Contact Rating: 7A,12A,15A/120VAC 28DC;  
6A,7A/220VAC; 6A/250VAC TV-5;  
(JZC-22F<sub>2</sub>: 20A/125VAC 28VDC; 10A/220VAC);  
(JZC-22F<sub>3</sub>: 20A/125VAC 28VDC; 16A/277VAC TV-8)  
5 Coil power consumption: L:0.36W; D:0.45W  
6 Coil rated Voltage(V): DC:3,6,9,12,24,48

### Contact Data

Contact Arrangement  
Contact Material  
Contact Rating

1A (SPSTNO)、1B (SPSTNC)、1C (SPDT(B-M))  
Ag·CdO Ag·SnO<sub>2</sub>  
resistive:5A,12A,15A,20A/120VAC,28VDC; 3A;6A,7A,10A/220VAC ;  
inductive:10A/250VAC; 15A/28VDC (rushing current 80A) (JZC-22FT only)  
lamp:TV-5

note:1) 20A/125VDC,28VDC &10A/220VAC JZC-22F<sub>2</sub> only  
2) 20A/125V,28VDC,16A/277VAC&TV-8 JZC-22F<sub>3</sub> only

Max. Switching Power  
Max. Switching Voltage  
Contact Resistance & Voltage drop  
Operation Electrical  
life Mechanical

420W 1800VA  
110VDC 380VAC  
≤100mΩ  
10<sup>5</sup>  
10<sup>7</sup>  
Max. Switching Current:20A rushing current 80A  
item 3.12 of IEC255-7  
item 3.30 of IEC255-7  
item 3.31 of IEC255-7

### Coil Parameter

| Dash numbers | Coil voltage VDC |      | Coil resistance Ω±10% | Pickup voltage VDC(max)<br>(75%of rated voltage ) | release voltage VDC(min)<br>(10% of rated voltage) | Coil power consumption W | Operate Time ms | Release Time ms |
|--------------|------------------|------|-----------------------|---------------------------------------------------|----------------------------------------------------|--------------------------|-----------------|-----------------|
|              | Rated            | Max. |                       |                                                   |                                                    |                          |                 |                 |
| 003-360      | 3                | 3.9  | 25                    | 2.25                                              | 0.3                                                | 0.36                     | <15             | <5              |
| 006-360      | 6                | 7.8  | 100                   | 4.50                                              | 0.6                                                |                          |                 |                 |
| 009-360      | 9                | 11.7 | 225                   | 6.75                                              | 0.9                                                |                          |                 |                 |
| 012-360      | 12               | 15.6 | 400                   | 9.00                                              | 1.2                                                |                          |                 |                 |
| 024-360      | 24               | 31.2 | 1600                  | 18.0                                              | 2.4                                                |                          |                 |                 |
| 048-360      | 48               | 62.4 | 6400                  | 36.0                                              | 4.8                                                | 0.45                     | <15             | <5              |
| 003-450      | 3                | 3.9  | 20                    | 2.25                                              | 0.3                                                |                          |                 |                 |
| 006-450      | 6                | 7.8  | 80                    | 4.50                                              | 0.6                                                |                          |                 |                 |
| 009-450      | 9                | 11.7 | 180                   | 6.75                                              | 0.9                                                |                          |                 |                 |
| 012-450      | 12               | 15.6 | 320                   | 9.00                                              | 1.2                                                |                          |                 |                 |
| 024-450      | 24               | 31.2 | 1280                  | 18.0                                              | 2.4                                                |                          |                 |                 |
| 048-450      | 48               | 62.4 | 5120                  | 36.0                                              | 4.8                                                |                          |                 |                 |

**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

### Operation condition

|                          |                                                             |                             |
|--------------------------|-------------------------------------------------------------|-----------------------------|
| Insulation Resistance    | 100M $\Omega$ min (at 500VDC)                               | Item 7 of IEC255-5          |
| Dielectric Strength      |                                                             |                             |
| Between contacts         | 50Hz 750V (JZC-22F <sub>3</sub> :1000V)                     | Item 6 of IEC255-5          |
| Between contact and coil | 50Hz 1500V                                                  | Item 6 of IEC255-5          |
|                          | 50Hz 2500V: JZC-22F <sub>2</sub> & JZC-22F <sub>3</sub>     | Item 6 of IEC255-5          |
| Shock resistance         | 100m/s <sup>2</sup> 11ms                                    | IEC68-2-27 Test Ea          |
| Vibration resistance     | 10~55Hz double amplitude 1.5mm                              | IEC68-2-6 Test Fc           |
| Terminals strength       | 10N                                                         | IEC68-2-21 Test Ua1         |
| Solderability            | 235 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C 3 $\pm$ 0.5s          | IEC68-2-20 Test Ta method 1 |
| Ambient Temperature      | -40~70 $^{\circ}$ C (JZC-22F <sub>3</sub> :85 $^{\circ}$ C) |                             |
| Relative Humidity        | 85% (at 40 $^{\circ}$ C)                                    | IEC68-2-3 Test Ca           |
| Mass                     | 13g (JZC-22F <sub>2</sub> ) 10g (JZC-22F <sub>3</sub> )     |                             |

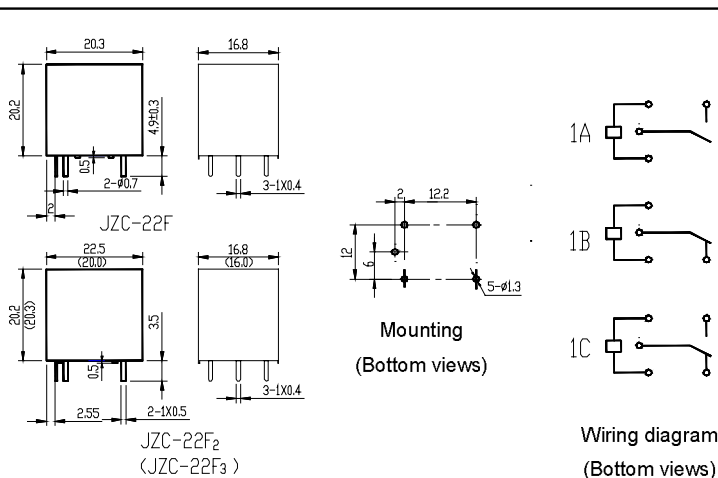
### Qualification inspection:

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

### Safety approvals

| Safety approval | UL&CUR                  | VDE              | TüV       | CCEE      |
|-----------------|-------------------------|------------------|-----------|-----------|
| Load            | 15A/125VAC, 28VDC; TV-5 | 10A/250VAC 28VDC | 6A/250VAC | 6A/250VAC |

### Dimensions (Unit: mm)



| mm   | inch  |
|------|-------|
| 0.4  | 0.016 |
| 0.5  | 0.020 |
| 0.7  | 0.027 |
| 1.0  | 0.039 |
| 1.3  | 0.051 |
| 2.0  | 0.079 |
| 2.55 | 0.100 |
| 3.5  | 0.138 |
| 4.5  | 0.177 |
| 6.0  | 0.236 |
| 12.0 | 0.472 |
| 12.2 | 0.480 |
| 16.8 | 0.661 |
| 20.2 | 0.795 |
| 20.3 | 0.799 |
| 22.5 | 0.866 |

NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.

### Reference Data

